

# 1 <sup>0590</sup>  
06/14 OIPE

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/748,127

DATE: 06/21/2001  
TIME: 16:30:31

Input Set : A:\Seqlist.txt  
Output Set: N:\CRF3\06212001\I748127.raw

ENTERED

4 <110> APPLICANT: YAN, Chunhua et al  
6 <120> TITLE OF INVENTION: ISOLATED HUMAN DRUG-METABOLIZING  
7 PROTEINS, NUCLEIC ACID MOLECULES ENCODING HUMAN  
8 DRUG-METABOLIZING PROTEINS,  
9 AND USES THEREOF  
12 <130> FILE REFERENCE: CL000685  
14 <140> CURRENT APPLICATION NUMBER: 09/748,127  
C--> 15 <141> CURRENT FILING DATE: 2001-06-11  
17 <160> NUMBER OF SEQ ID NOS: 4  
19 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
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22 <211> LENGTH: 2944  
23 <212> TYPE: DNA  
24 <213> ORGANISM: Human  
26 <400> SEQUENCE: 1

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29	cggcggcggt	ggtccgggag	aaaccgcggc	gcggggagat	aagcctgcc	aggaggcagg	180
30	gggctgggct	agctgccccg	ccccgcgcct	gaattcggtg	gggagggaga	cgcccggctc	240
31	ccgcccctaa	ctagcccagc	cgcgcgagag	gcctgggaga	ggagaaggag	ccgacctgcc	300
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33	acgctggcgc	tgccggggac	cagggcccga	ggccacctgc	cccccgggcc	cacgccgcta	420
34	ccactgctgg	gaaacctcct	gcagctacgg	cccggggcgc	tgtattcagg	gctcatgcgg	480
35	ctgagtaaga	agtacggacc	ggtgttcacc	atctacctgg	gacctggcg	gcctgtggtg	540
36	gtcctgggtg	ggcaggaggc	tgtgcgggag	gccctgggag	gtcaggctga	ggagttcagc	600
37	ggccggggaa	ccgtagcgat	gctggaagg	acttttgatg	gccatggggt	tttcttctcc	660
38	aacggggagc	ggtggaggca	gctgaggaag	tttacctatg	ttgctctgcg	ggacctgggc	720
39	atggggaaag	gagaaggcga	ggagctgatc	caggcggagg	cccgggtgtc	ggtggagaca	780
40	ttccagggga	cagaaggacg	cccattcgat	ccctccctgc	tgctggccca	ggccacctcc	840
41	aacgtagtct	gtccctcctc	ctttggcctc	cgcttctcct	atgaggataa	ggagttccag	900
42	gccgtgggtc	gggcagctgg	tggtaccctg	ctgggagatc	gtcccagg	gggtcagacc	960
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48	aaataccctc	atgtccaaaa	gtgggtacgt	gaggagctga	atcgggagct	gggggctggc	1320
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53	gcagatggac	ggttcaggaa	gcatgaggcg	ttcctgacct	tctccttagg	gaagcgtgtc	1620
54	tgcttgagg	agggcctggc	aaaagcggag	ctcttctctt	tcttcaccac	catectacaa	1680
55	gccttctccc	tggagagccc	gtgcccgcgc	gacacctga	gcctcaagcc	caccgtcagt	1740
56	ggccttttca	acattccccc	agccttccag	ctgcaagtcc	gtcccactga	ccttccactcc	1800
57	accacgcaga	ccagatgaag	gaaggcaact	tggaagtggg	gggtgcccag	gacgggtgct	1860
58	ccagcctcaa	cagtgggcat	ggacagggtt	aatgtctcca	gagtgtacac	tgcaggcagc	1920

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61 actgctgggt tagctttcca cagacataaa tatagtccat ctgcaatcac aagcacatag 2100
62 ccaggtaacc caccaactcc cctggatctg cagcccacac gtgggagtct ggctgtcacc 2160
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64 aacttctcag tgtccctgtc cctggtgcct ggcacaggga acagcatgcc ccctccgggg 2280
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67 gctaccacag tacgacatcg tctggtctcc ccagagtatc ttccactga gacacgccgc 2460
68 cccacacagag gcacagtccc cagccacctc tgcaactgca gccctcagtc accccttttt 2520
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74 cttaagggtc cggttggtga attaaagttt gtttctggcc tttagcctaa aaaaaaaaaa 2880
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76 aaaa 2944

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78 &lt;210&gt; SEQ ID NO: 2

79 &lt;211&gt; LENGTH: 504

80 &lt;212&gt; TYPE: PRT

81 &lt;213&gt; ORGANISM: Human

83 &lt;400&gt; SEQUENCE: 2

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85 1 5 10 15
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87 20 25 30
88 Pro Pro Gly Pro Thr Pro Leu Pro Leu Leu Gly Asn Leu Leu Gln Leu
89 35 40 45
90 Arg Pro Gly Ala Leu Tyr Ser Gly Leu Met Arg Leu Ser Lys Lys Tyr
91 50 55 60
92 Gly Pro Val Phe Thr Ile Tyr Leu Gly Pro Trp Arg Pro Val Val Val
93 65 70 75 80
94 Leu Val Gly Gln Glu Ala Val Arg Glu Ala Leu Gly Gly Gln Ala Glu
95 85 90 95
96 Glu Phe Ser Gly Arg Gly Thr Val Ala Met Leu Glu Gly Thr Phe Asp
97 100 105 110
98 Gly His Gly Val Phe Phe Ser Asn Gly Glu Arg Trp Arg Gln Leu Arg
99 115 120 125
100 Lys Phe Thr Met Leu Ala Leu Arg Asp Leu Gly Met Gly Lys Arg Glu
101 130 135 140
102 Gly Glu Glu Leu Ile Gln Ala Glu Ala Arg Cys Leu Val Glu Thr Phe
103 145 150 155 160
104 Gln Gly Thr Glu Gly Arg Pro Phe Asp Pro Ser Leu Leu Leu Ala Gln
105 165 170 175
106 Ala Thr Ser Asn Val Val Cys Ser Leu Leu Phe Gly Leu Arg Phe Ser
107 180 185 190
108 Tyr Glu Asp Lys Glu Phe Gln Ala Val Val Arg Ala Ala Gly Gly Thr
109 195 200 205

```

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111      210      215      220
112 Trp Phe Leu Arg Pro Leu Pro Gly Pro His Lys Gln Leu Leu His His
113 225      230      235      240
114 Val Ser Thr Leu Ala Ala Phe Thr Val Arg Gln Val Gln Gln His Gln
115      245      250      255
116 Gly Asn Leu Asp Ala Ser Gly Pro Ala Arg Asp Leu Val Asp Ala Phe
117      260      265      270
118 Leu Leu Lys Met Ala Gln Glu Glu Gln Asn Pro Gly Thr Glu Phe Thr
119      275      280      285
120 Asn Lys Asn Met Leu Met Thr Val Ile Tyr Leu Leu Phe Ala Gly Thr
121      290      295      300
122 Met Thr Val Ser Thr Thr Val Gly Tyr Thr Leu Leu Leu Leu Met Lys
123 305      310      315      320
124 Tyr Pro His Val Gln Lys Trp Val Arg Glu Glu Leu Asn Arg Glu Leu
125      325      330      335
126 Gly Ala Gly Gln Ala Pro Ser Leu Gly Asp Arg Thr Arg Leu Pro Tyr
127      340      345      350
128 Thr Asp Ala Val Leu His Glu Ala Gln Arg Leu Leu Ala Leu Val Pro
129      355      360      365
130 Met Gly Ile Pro Arg Thr Leu Met Arg Thr Thr Arg Phe Arg Gly Tyr
131      370      375      380
132 Thr Leu Pro Gln Gly Thr Glu Val Phe Pro Leu Leu Gly Ser Ile Leu
133 385      390      395      400
134 His Asp Pro Asn Ile Phe Lys His Pro Glu Glu Phe Asn Pro Asp Arg
135      405      410      415
136 Phe Leu Asp Ala Asp Gly Arg Phe Arg Lys His Glu Ala Phe Leu Pro
137      420      425      430
138 Phe Ser Leu Gly Lys Arg Val Cys Leu Gly Glu Gly Leu Ala Lys Ala
139      435      440      445
140 Glu Leu Phe Leu Phe Phe Thr Thr Ile Leu Gln Ala Phe Ser Leu Glu
141      450      455      460
142 Ser Pro Cys Pro Pro Asp Thr Leu Ser Leu Lys Pro Thr Val Ser Gly
143 465      470      475      480
144 Leu Phe Asn Ile Pro Pro Ala Phe Gln Leu Gln Val Arg Pro Thr Asp
145      485      490      495
146 Leu His Ser Thr Thr Gln Thr Arg
147      500
150 <210> SEQ ID NO: 3
151 <211> LENGTH: 17752
152 <212> TYPE: DNA
153 <213> ORGANISM: Human
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156 <221> NAME/KEY: misc_feature
157 <222> LOCATION: (1)...(17752)
158 <223> OTHER INFORMATION: n = A,T,C or G
160 <400> SEQUENCE: 3

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W--> 164 nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn 240
W--> 165 nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn 300
W--> 166 nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn 360
W--> 167 nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn 420
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W--> 172 nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn 720
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194 tttcttctctc cctacccccca gctgagtaag aagtacggac cgggtgtcac catctacctg 2040
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211 ggtcagggcc aggctgaggg aagccctggg actgtaggaa tttagaggag gtacctgacc 3060
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214 gactttgaga gaagcattca tccattcaac tgatgaattt tcagactggg cacgctggct 3240
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## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/748,127

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Input Set : A:\Seqlist.txt

Output Set : N:\CRF3\06212001\I748127.raw

L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:161 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:163 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:164 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:165 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:166 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:167 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:168 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:169 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:170 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:171 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:172 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:173 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:174 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:175 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:176 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:177 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:178 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:179 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:180 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:181 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:182 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:183 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:184 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:185 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:186 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:187 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:188 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:189 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:190 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:191 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:192 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:193 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:300 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:301 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:302 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:303 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:304 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:305 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:306 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:307 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:308 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:309 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:310 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:311 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:312 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:313 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/748,127

DATE: 06/21/2001

TIME: 16:30:32

Input Set : A:\Seqlist.txt

Output Set: N:\CRF3\06212001\I748127.raw

L:314 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:315 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:316 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3